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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,716	04/05/2001	Michael Karpusas	A062 US 4368	
7590 06/08/2004			EXAMINER	
Niki D. Cox			BORIN, MICHAEL L	
Biogen, Inc. 14 Cambridge Center			ART UNIT	PAPER NUMBER
Cambridge, MA 02142			1631	
			DATE MAILED: 06/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/826,716	KARPUSAS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael Borin	1631				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tiled by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 f						
2a)⊠ This action is FINAL . 2b)□ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-33</u> is/are pending in the application.						
4a) Of the above claim(s) <u>1-19 and 21-33</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bure	au (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		(270, 110)				
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa Paper No(s)/Mail					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	E) The Markey of Information	Patent Application (PTO-152)				

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DETAILED ACTION

Status of Claims

1. Amendment filed 02/19/2004 is acknowledged.

Claims 1-33 are pending. Claim 20 is under consideration. Claims 1-19, 21-33 remain withdrawn from further consideration. Cancellation of claims 1-19, 21-33 is repeatedly requested.

Claim Rejections - 35 USC § 102 and 103

2. Claim 20 remain rejected under 35 U.S.C. 102(b) as anticipated by Holmvall et al or Pfaff et al or Kern et al. The rejection is maintained for the reasons of record.

Applicant submits that amendment to the claims overcomes the rejection. Examiner maintains that Holmvall et al or Pfaff et al, or Kern et al., which are exemplary references, all describe employing experimental means to interact $\alpha 1\beta 1$ integrin with a putative ligand (such as collagen II or collagen IV) and analyzing results of this interaction, thus evaluating - using the language of instant claims - the ability of collagen (i.e., of a chemical entity) to interact with $\alpha 1\beta 1$ integrin. Note that the method steps of obtaining data "related" to said association and analyzing the characteristics of the association read on any experimental or computational method which addresses interaction of $\alpha 1\beta 1$ integrin with a ligand. Performing "fitting operation" broadly reads on performing any interaction $\alpha 1\beta 1$ integrin with a putative ligand, as results of such interaction reflect whether the putative ligand "fits" $\alpha 1\beta 1$ integrin or not. Consequently the method as claimed is anticipated by the exemplary references used in the rejection.

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3. Claim 20 remain rejected under 35 U.S.C. 103(a) as obvious over Qu et al. The

rejection is maintained for the reasons of record.

Applicant does not present arguments addressing this particular rejection. Examiner does not see amendment to the claim, which specifies I domain of $\alpha 1\beta 1$ integrin complex, as amendment that overcomes rejection directed to obvious use of this I domain.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Borin whose telephone number is (571) 272-0713. Dr. Borin can normally be reached between the hours of 8:30 A.M. to 5:00 P.M. EST Monday to Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Woodward, can be reached on (571) 272-0722.

Any inquiry of a general nature or relating the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-0549.

June 3, 2004

mlb

MICHAEL BORIN, PH.D PRIMARY EXAMINER

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